APPENDIX F

DESCRIPTION OF COMPUTER SOFTWARE PROGRAMS USED

Computer Software Used for 1999 Study

The following computer software packages were used in the conduct of the *1999 Science and Engineering Indicators Study* by the Chicago Academy of Sciences staff:

Microsoft Office (Word, Excel) -Microsoft Word and Excel were used in the preparation of reports for the study, as well as all correspondence.

SPSS –SPSS was used for the construction of data analysis files, and in the analysis of those files.

LISREL8—LISREL8 was used to conduct confirmatory factor analyses to create the *Index of Scientific Promise* and *the Index of Scientific Reservations.*

BILOGMG-BILOGMG was used to create *the Index of Scientific Construct Understanding.*

EC-The Electronic Coder Software (EC) was used to code all short-answer open-ended questions included in the study.

Eudora-Staff communicated with NORC staff and with the NSF staff through email, through use of the Eudora software.

Netscape Navigator-Data was downloaded on a weekly basis from the NORC website through use of Netscape Navigator.

In addition to the software used by the CAS staff, sample management and reporting was accomplished at NORC through Surveycraft's Sample Management System (SMS) while the interviews were conducted through Surveycraft's Computer-assisted Telephone Interviewing (CATI) system. Surveycraft is a PC-based system written specifically to run on a Novell LAN, the hardware and operating system used at NORC.